

Gwyn Humphreys

From: David Stoddart

Sent: 16 April 2024 11:00

To: Doug Bailey; Emily Armstrong; Gwyn Humphreys

Cc: Kevin Blakey; Michelle Zenner; James Rees; Cerys Jones; Kevin Edwards

Subject: RE: P/2023/0280 Kingmoor scheme, Bryn Lane, Wrexham Ind Estate- Highway Consultation

Good morning Doug,

Thanks for your time on the phone yesterday. I'm pleased to provide you with an updated drawing showing the proposed improvements at the Bryn Lane (Wockhardt) roundabout. All of the works are achievable within highway land.

When investigating the potential flare lengthening on Abenbury Way, it would appear that the existing entry path curvature is substandard at 135m, so if we were to widen on the northwest side of the arm it would make this worse. We have therefore widened on both sides to tighten this up and still lengthen the flare long enough to allow two 16.5m long articulated lorries to queue in the nearside lane without starving the flare. The effective flare length is around 38m though we have used a value of 30m in the associated model to be robust, with the results provided in the table below and output attached. As you will see, the improvement provides a slight betterment compared to what I provided in Table 1 in my email on 3rd April 2024.

Arm	AM		PM	
	RFC	Q (PCU)	RFC	Q (PCU)
2027 With Development				
1 - Bryn Lane	0.40	0.8	0.41	0.8
2 - Ash Road North	0.16	0.3	0.68	2.1
3 - Abenbury Way	0.20	0.3	0.53	1.2
4 - Industrial Estate Road	0.86	6.4	0.33	0.6
2036 With Development				
1 - Bryn Lane	0.42	0.9	0.42	0.8
2 - Ash Road North	0.17	0.3	0.71	2.5
3 - Abenbury Way	0.20	0.3	0.56	1.3
4 - Industrial Estate Road	0.89	8.3	0.34	0.6
With Dev 2027 Sensitivity Test				
1 - Bryn Lane	0.39	0.8	0.45	0.9
2 - Ash Road North	0.16	0.3	0.70	2.3
3 - Abenbury Way	0.20	0.3	0.54	1.2
4 - Industrial Estate Road	0.89	8.6	0.32	0.5
With Dev 2036 Sensitivity Test				
1 - Bryn Lane	0.42	0.9	0.47	1.0
2 - Ash Road North	0.17	0.3	0.73	2.7
3 - Abenbury Way	0.20	0.3	0.57	1.4
4 - Industrial Estate Road	0.92	11.8	0.33	0.6

I trust you will be more content with this arrangement.

I have also added some comments of clarification to the list in your email below.

I trust all is in order and you will now be in a position to offer 'no objection' subject to obligations in your report to Gwyn.

Kind regards

Dave

David Stoddart
Associate Director